

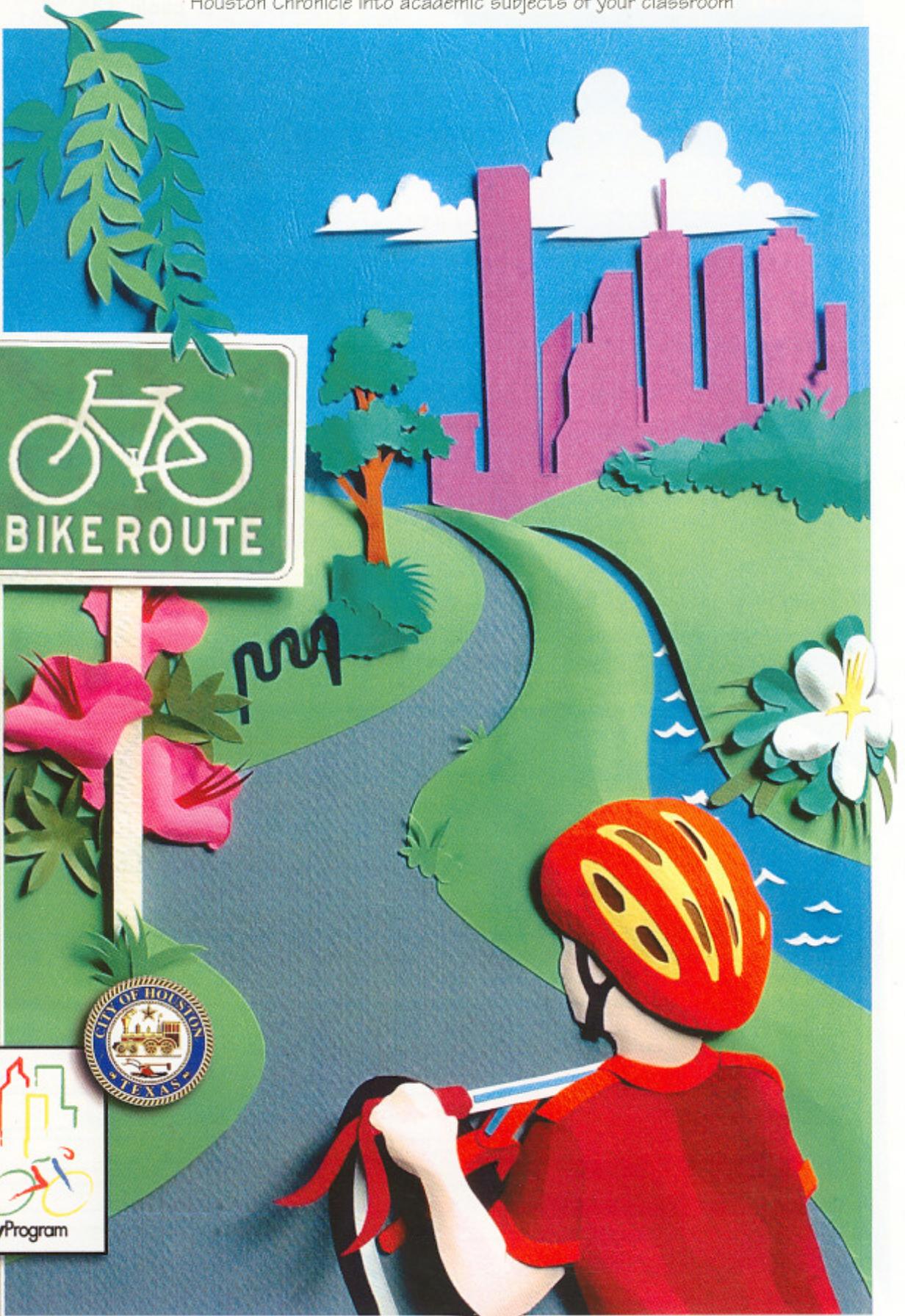
HOUSTON★CHRONICLE
Chronicle In Education
chron.com/cie

BIKE SMART

Suggested activities for integrating today's Bike Smart guide in the Houston Chronicle into academic subjects of your classroom

BIKE SMART

with the Houston Bikeway Program



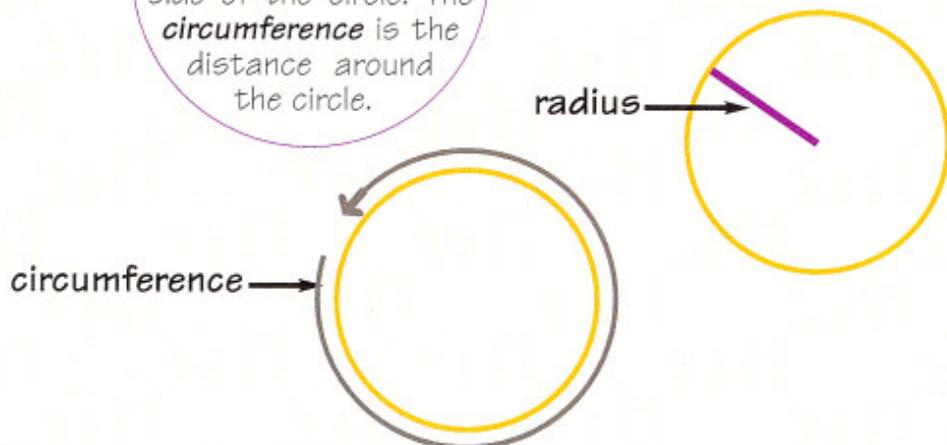
Teachers of all subjects

can integrate the Bike Smart guide in today's Houston Chronicle into classroom lessons. Students will love these TEKS-aligned activities and you'll engage them in relevant math, science, social studies, language arts, and health lessons.

Math

The **radius** is the distance from the middle of a circle to any point on the outside of the circle. The **circumference** is the distance around the circle.

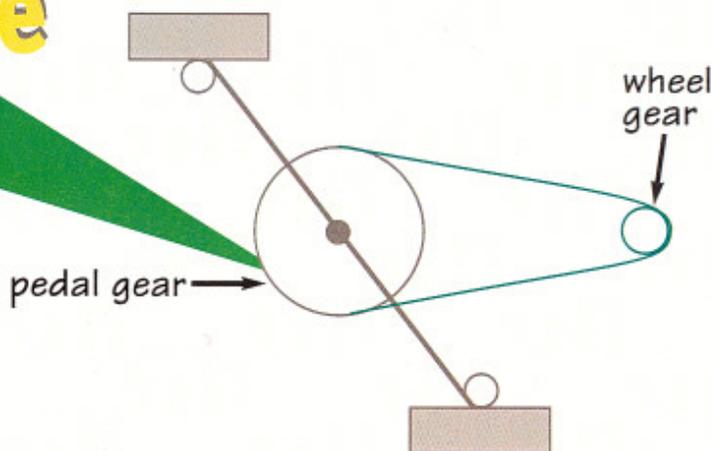
FORMULA: $C = 2\pi r$
 C = circumference
 $\pi = 3.14$
 r = radius



1. Find the radius of your bicycle tire in inches. _____
2. Find the circumference of your bicycle tire by using the formula. _____
3. Change your answer to feet. (1 foot = 12 inches) _____
4. If you rode your bike 100 feet, how many times would your bicycle tire turn totally around? _____

Science

A **gear** is a machine that helps a person do work. As you pedal your bike, you rotate the **pedal gear**. The chain turns, rotating the **wheel gear**. The larger the wheel gear, the easier it is to pedal. As you shift up, the wheel gear becomes smaller, and you must pedal harder. Ride your bike one block at each of the following gears and count the number of times you must pedal.



1st gear _____

2nd gear _____

3rd gear _____

Which gear required you to pedal the highest number of times? _____

Which gear was easiest to pedal? _____

Explain: _____

Thank you, City of Houston, for Bike Smart!

As a sponsor of this innovative program, the City of Houston has provided Bike Smart teaching guides to help teachers integrate its material into academic subjects in the classroom. Using the daily newspaper, Houston-area students are learning about bike safety in addition to math, science, language arts and social studies.



ReadersAreLeaders
FOUNDATION
Supporting Literacy Through Newspapers In Education

HOUSTON★CHRONICLE
Chronicle In Education
chron.com/cie